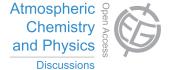
Supplement of Atmos. Chem. Phys. Discuss., 14, 15149–15189, 2014 http://www.atmos-chem-phys-discuss.net/acpd-14-15149-2014/doi:10.5194/acpd-14-15149-2014-supplement © Author(s) 2014. CC Attribution 3.0 License.





## Supplement of

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## **Supplementary materials**

Table S1. Summary of contribution of NPF events to potential CCN at different time of day between 14:00 to 17:00 in all measurements

Type	Sites	Season	$S_c=0.5 (D_p=50)$				$S_c=0.2 (D_p=90)$			
			14:00-15:00	15:00-16:00	16:00-17:00	Ave.	14:00-15:00	15:00-16:00	16:00-17:00	Ave.
Urban	GZu	Autumn	27%	31%	35%	31%	6%	9%	12%	9%
	$\mathbf{SH}_{\mathbf{u}}$	Spring	37%	30%	31%	33%	7%	5%	6%	6%
	$WX_{u}\_win$	Winter	0%	0%	0%	0%	0%	0%	0%	0%
	$WX_{u}$ sum	Summer	76%	63%	60%	66%	31%	23%	24%	26%
	$JH_u$	Autumn	0%	0%	0%	0%	0%	0%	0%	0%
Regional	HSr	Autumn	0%	0%	0%	0%	0%	0%	0%	0%
	$KP_r$	Autumn	22%	33%	34%	30%	2%	7%	8%	6%
	$JX_{r}$ sum	Summer	61%	55%	56%	57%	25%	21%	22%	23%
	$JX_{r}$ win	Winter	0%	0%	0%	0%	0%	0%	0%	0%
	$YF_r$	Summer	25%	30%	28%	28%	2%	5%	7%	5%
Coastal	BG	Autumn	5%	9%	11%	8%	<1%	<1%	1%	<1%
	$\mathbf{WL}$	Autumn	3%	6%	6%	5%	<1%	<1%	1%	<1%
	CD	Spring	5%	11%	14%	10%	<1%	<1%	1%	<1%
Cruise	ES	Spring	<1%	<1%	<1%	<1%	<1%	<1%	<1%	<1%

<sup>3 &</sup>quot;0%" represent that there is no NPF event found in the measurement; "<1%" represent that there are NPF events found in the measurement, but the relative contributions

of these NPF events to the total CCN concentration are smaller than 1%.